



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁵ : C12N 15/24, C12P 21/02 C07K 13/00, A61K 37/02 C12P 21/08, A61K 39/395	A1	(11) International Publication Number: WO 94/04680 (43) International Publication Date: 3 March 1994 (03.03.94)
(21) International Application Number: PCT/US93/07645 (22) International Filing Date: 18 August 1993 (18.08.93) (30) Priority data: 07/933,416 21 August 1992 (21.08.92) US 08/010,977 29 January 1993 (29.01.93) US 08/012,543 1 February 1993 (01.02.93) US (71) Applicant: SCHERING CORPORATION [US/US]; 2000 Galloping Hill Road, Kenilworth, NJ 07033 (US). (71)(72) Applicants and Inventors: AVERSA, Gregorio [IT/US]; 2563 Cowper Street, Palo Alto, CA 94301 (US). BANCHEREAU, Jacques [FR/FR]; La Boissière, 25, avenue Paul-Santy, F-69130 Ecully (FR). BRIERE, Francine [FR/FR]; Chemin du Cimetière, F-69210 S.-Germain-sur-l'Arbresle (FR). COOKS, Benjamin, G. [AU/US]; 1980 California Street #7, Mountain View, CA 94040 (US). COFFMAN, Robert, L. [US/US]; 239 Echo Lane, Portola Valley, CA 94025 (US). CULPEPPER, Janice [US/US]; 1755 Ednamary Way #2, Mountain View, CA 94040 (US). DANG, Warren [US/US]; 4691 Albany Circle #128, San Jose, CA 95129 (US). DE VRIES, Jan [NL/US]; 763 Sunshine Drive, Los Altos, CA 94022 (US). DE WAAL MALEFYT, Rene [NL/US];		891 Muender Avenue, Sunnyvale, CA 94086 (US). DOHERTY, Timothy, M. [NZ/US]; 2101 California Street #226, Mountain View, CA 94040 (US). HEATH, Andrew [GB/US]; 135 O'Connor Street, Menlo Park, CA 94025 (US). MCKENZIE, Andrew [GB/US]; 712 Fulton Street #1753, Redwood City, CA 94061 (US). PUNNONEN, Juha [FI/FI]; Tahkapolku 4 C 90, FIN-20720 Turku (FI). ZURAWSKI, Gerard [AU/US]; 1028 Wilmington Way, Redwood City, CA 94062 (US). (74) Agents: DULAK, Norman, C. et al.; Schering-Plough Corporation, One Giralda Farms, M3W, Madison, NJ 07940-1000 (US). (81) Designated States: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: HUMAN INTERLEUKIN-13 (57) Abstract Nucleic acids encoding human IL-13, and purified IL-13 proteins and fragments thereof. Antibodies, both polyclonal and monoclonal, are also provided. Methods of using the compositions for both diagnostic and therapeutic utilities are provided.		